

Appl. No. 09/808,775
Amendment date May 17, 2004
Reply to Office Action of Feb. 17, 2004

LISTING OF CLAIMS

1. (Previously presented) A head assembly for a cutting machine, comprising:
 - a head having mounting means for movement of said head assembly on an axis, said head defining a first channel oriented at an oblique angle to said axis;
 - a slide mounted for slidable movement in said first channel between a withdrawn blade position and a plunged blade position, said slide having a second channel therein extending substantially parallel to said first channel, and said slide and head having first cooperating mechanical means thereon for adjustably limiting the movement of said slide to said plunged blade position; and
 - a blade-holding magazine dimensioned and configured for slidable insertion into said second channel, wherein said slide and magazine include a second cooperating mechanical means thereon for adjustably limiting the depth of magazine insertion into said second channel.

2. (Previously presented) A head assembly for a cutting machine, comprising:
 - a head having mounting means for movement of said head assembly on an axis, said head defining a first channel oriented at an oblique angle to said axis; and
 - a slide mounted for slidable movement in said channel of said head between a withdrawn blade position and a plunged blade position, said slide having a second channel therein extending substantially parallel to said first channel for receiving a blade-holding magazine inserted thereinto, said slide and head having first cooperating mechanical means thereon for adjustably limiting the movement of said slide to said plunged blade position;
 - wherein the blade-holding magazine is dimensioned and configured for slidable insertion into said second channel in said slide, said slide and magazine having second cooperating mechanical means thereon for adjustably limiting the depth of magazine insertion into said second channel; and
 - wherein said assembly includes a linear motion support system for said slide, said support system comprising, on each of two opposite sides of said slide, an array of at least three elongate rectilinear elements mutually spaced to define a passage therewithin, and a

Appl. No. 09/808,775
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multiplicity of bearing elements loosely stacked in columnar relationship within said defined passage.

3. (Previously presented) The assembly of claim 1 further comprising means for selectively fixing the magazine within the second channel.
4. (Previously presented) The assembly of claim 1 wherein the second cooperating mechanical means comprises at least one first locating member attached to the magazine, and at least one second locating member attached to the slide, wherein the magazine is insertable into the second channel to a position wherein the first locating member and the second locating member contact one another and limit further insertion of the magazine within the second channel.
5. (Previously presented) The assembly of claim 3, wherein the means for selectively fixing the magazine within the second channel includes a clamping screw.
6. (Previously presented) The assembly of claim 5, wherein the clamping screw is disposed to act against a cutting blade held within the magazine, thereby operatively positioned to fix both the magazine and the cutting blade within the second channel.
7. (Previously presented) The assembly of claim 4, wherein at least one of the first locating member and the second locating member are adjustably positionable, thereby enabling the position of the magazine within the second channel when the first locating member is in contact with the second locating member, to be selectively adjusted.
8. (Previously presented) The assembly of claim 4, wherein the slide comprises a plurality of second locating members.
9. (Previously presented) The assembly of claim 8, further comprising one or more

Appl. No. 09/808,775
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second blade-holding magazines dimensioned and configured for slidable insertion into said second channel in place of the first magazine, wherein the first locating member of the one or more second blade-holding magazines are positioned to align with at least one the plurality of second locating members.

10. (Previously presented) The head assembly of claim 1, wherein the blade-holding magazine comprises a flange and a means for holding a blade in contact with the flange.
11. (Previously presented) The assembly of claim 10, wherein the flange is disposed such that the means for holding a blade in contact with the flange holds a portion of a cutting edge of the blade in contact with the flange.
12. (Previously presented) The assembly of claim 11, wherein the means for holding a blade in contact with the flange includes a screw threadably engaged with the magazine, the screw positioned to act against an end of the blade opposite the cutting edge.
13. (Canceled)
14. (Previously presented) A head assembly for a cutting machine, comprising:
 - a head having mounting means for movement of said head assembly on an axis, said head defining a first channel oriented at an oblique angle to said axis;
 - a slide mounted for slidable movement in said first channel between a withdrawn blade position and a plunged blade position, said slide having a second channel therein extending substantially parallel to said first channel, and said slide and head having cooperating mechanical means thereon for adjustably limiting the movement of said slide to said plunged blade position; and
 - a blade-holding magazine dimensioned and configured for slidable insertion into said second channel, wherein the magazine includes a slot, a shoulder obliquely disposed relative to the slot and positioned adjacent one end of the slot, and means for securing a blade within

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the slot, wherein the means for securing a blade within the slot is configured to secure a blade having an obliquely oriented cutting edge.

15. (Previously presented) A head assembly for a cutting machine, comprising:
- a head having mounting means for movement of said head assembly on an axis, said head defining a first channel oriented at an oblique angle to said axis;
 - a slide mounted for slidable movement in said first channel between a withdrawn blade position and a plunged blade position, said slide having a second channel therein extending substantially parallel to said first channel, and said slide and head having cooperating mechanical means thereon for adjustably limiting the movement of said slide to said plunged blade position; and
 - a blade-holding magazine dimensioned and configured for slidable insertion into said second channel, wherein the magazine includes a slot, a shoulder obliquely disposed relative to the slot and positioned adjacent one end of the slot, and means for securing a blade within the slot, wherein the shoulder is disposed such that the means for securing a blade within the slot holds a portion of a cutting edge of the blade in contact with the shoulder.

16. (Previously presented) The assembly of claim 15, wherein the means for securing a blade within the slot includes a screw threadably engaged with the magazine, the screw positioned to act against an end of the blade opposite the cutting edge.

17. (Canceled)

18. (Canceled)

19. (Canceled)